

Geometry Date_____ 3.1 Assignment

Lines and Angles (pp 120-131)

1. What is your name?

Think of each segment in the diagram as part of a line. Is each pair of lines parallel, skew, or perpendicular?

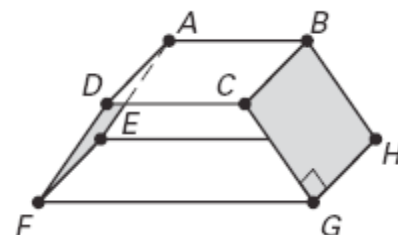
2. \overleftrightarrow{DC} & \overleftrightarrow{AB}

3. \overleftrightarrow{FG} & \overleftrightarrow{GH}

4. \overleftrightarrow{CD} & \overleftrightarrow{BH}

5. \overleftrightarrow{AD} & \overleftrightarrow{GH}

6. Plane CGF & plane ABH.



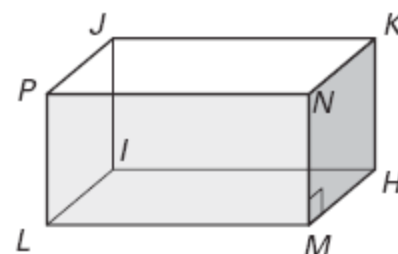
Think of each segment in the diagram as part of a line. Although there may be more than one correct answer, you only need to list one.

7. Name a line parallel to \overleftrightarrow{PN} .

8. Name a line skew to \overleftrightarrow{PN} .

9. Name a plane parallel to PNM.

10. Name a line perpendicular to



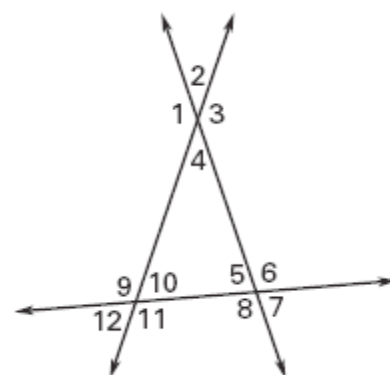
Is each pair of angles corresponding, alternate interior, alternate exterior or same-side interior?

11. $\angle 8$ & $\angle 2$

12. $\angle 10$ & $\angle 5$

13. $\angle 4$ & $\angle 9$

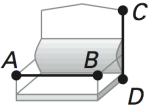
14. $\angle 12$ & $\angle 1$



Geometry Date_____ 3.1 Assignment

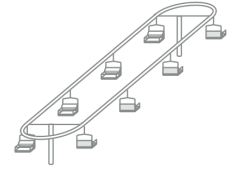
Lines and Angles (pp 120–131)

Use the diagram of the ski lift to decide whether the statement is true or false.



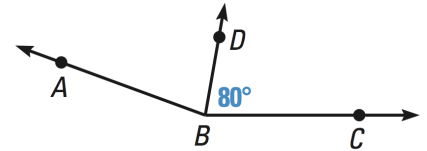
15. _____ At any position around the lift, the line containing the crossbar, \overleftrightarrow{AB} , of each chair is parallel to the ground.

16. _____ For any chair of lift, the line containing the back support, \overleftrightarrow{CD} , and the line containing the crossbar, \overleftrightarrow{AB} , are skew lines.



17. _____ At any position around the lift, the line containing the back support, \overleftrightarrow{DC} , is perpendicular to the ground. (Assume the carts are hanging as shown in the diagram.)

18. The ray \overrightarrow{BD} bisects $\angle ABC$. Find $m\angle ABD$ & $\angle ABC$. (Chapter 1 section 5)



Find the measures of a complement and a supplement of the angle.

(Chapter 1 Section 6)

19. 68°

20. 45°

Solve the equation and state a reason for each step. (chapter 2 section 4)

21. $4x + 11 = 31$

22. $5x + 7(x - 10)$